

FEDERAL SPECIFICATION

PLASTIC SHEET, ROD AND TUBE, LAMINATED, THERMOSETTING

This amendment, which forms a part of Federal Specification L-P-509a, dated January 19, 1965, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

PAGE 1

Table I, type I, column 2, under the MIL-P- grade designations. Delete the Military reference for grades: "II, XII, XXIP, XXIPC, ES-1, ES-2, and ES-3; and substitute "-".

PAGE 2

Table I, type IV, column 2. Delete reference "15037, type GME, (sheets)" for grade "G-5".

PAGE 3

Table I, type IV, Glass base, below "G-7", add the following grade and characteristics: Grade: "G-9"; MIL-P- grade designation: "15037, type GME"; form: "Sheets only"; Characteristics: "Continuous-filament-type glass cloth, melamine binder; electrical type. Good arc and flame resistance. Very hard grade."

PAGE 4

Table II, within the type IV grades, add the following new material requirements below Grade "G-7": Grade: "G-9"; Sheets: "Semigloss"; Tubes and rods: "-"; Colors: Sheets, "Natural", Tubes and rods, "-".

PAGE 5

Paragraph 2.1, under "Federal Specifications". Delete "PPP-B-636 - Box, Fiberboard", and substitute "PPP-F-320- Fiberboard; Corrugated and Solid, Sheet Stock (Container Grade), and Cut Sheets".

Under "Federal Standards". Delete "Fed. Std. No. 102 - Preservation, Packaging, and Packing Levels".

PAGE 6

Table IV, within the column headings containing "Grade C" and "Grade L," add "1/". At the end of the table, add "1/ For 1/4 inch and above, the tolerance shall be plus (+) only."

PAGE 8

Table V, within the type IV group, add grade "G-9", thickness minimum ".010", maximum "3-1/2".

PAGE 12

Paragraph 3.4, line 5, delete "table II and" and substitute "table II or".

PAGE 13

Table XVIII, add the following grades and requirements: Grades: "FR 2, Fr-3", Room temperature column: "1/16"; Heated column "1/8".

Table XVIII within "Grade" grouping "G-3, G-5, G-6, G-7" add "G-9".

PAGE 14

Table XI below Grade "G-7", add the following new material: Grade: "G-9", 1/32 IW: "55,000", CW: "45,000", 1 IW: "60,000", CW: "40,000", 3/32 IW: "47,000", CW: "39,000", 1/8 IW: "55,000", CW: "35,000", 1/4 IW: "41,000", CW: "36,000".

PAGE 15

Table XIX (cont'd). Delete all requirements for grade XXIPC and substitute only the following requirements: 1/4 inch: IW "12,000, CW: "10,500".

Table XII (cont'd). below Grade "G-7", add the following new material: Grade "G-9", 1/4 DI: "38,000", CW: "34,000"; 1/2 DI: "45,000", CW: "30,000"; 3/4 DI: "31,200", CW: "28,500", 1 and over DI: "31,200", CW: "28,500".

PAGE 16

Table XI, below Grade "G-7", add the following new material: Grade "G-9"; Impact Strength DI: "5/", CW: "5/", Bonding Strength, Condition A: "1,700"; Condition D-48/50: "1,500".

Table XI. Delete the "Bonding Strength" requirements for grades "W-1" and "W-2" and substitute the following: Condition A, W-1: "1,400", W-2: "1,300"; Condition D-48/50, W-1: "1,300", W-2: "1,200".

Under "footnote 2" explanation, line 3, delete "Unmatched" and substitute "Unmachined".

Under "footnote 5: after "grade G-5: add "and grade G-9".

PAGE 17

Table XII. Add the following new grade and requirements below grade G-7: "Dielectric constant": Grade: "G-9"; Condition A: "7.4"; Condition D-24/23: 1/32: "7.4", 1/16: "7.4", 3/32: "7.4", 1/8: "7.4", 3/16: "7.4", 1/4: "7.4", 1/2: "7.4", over 1/2: "8.0"; Condition D-48/50: "7.5".

Table XII. Add the following new grade and requirements below grade G-7 "Dissipation Factor": Grade: "G-9"; Condition A: ".0175"; Condition D-24/23, 1/32: ".018", 1/16: ".018", 3/32: ".018", 1/8: ".018", 3/16: ".018", 1/4: ".018", 1/2: ".020", over 1/2: ".025"; Condition D-48/50: ".020".

Table XII. Delete requirement ".035" in last column (Condition D-48/50) for grade "G-11 dissipation factor" and substitute ".045".

PAGE 18

Table XIII. Delete "5.0" requirement for Grade XII Condition D-48/50, 1/32 to 1 inch.

Table XIII. Add the following grade and requirements below grade "XXX": Grade: "XXX", Condition A, thickness 1/32 to 1 incl.: "60"; over 1 to 2 incl.: "-"; Condition D-48/50, 1/32 to 1 incl.: "35.0"; over 1 to 2 incl.: "-"; Arc resistance: "-".

Table XIII. Add the following grade and requirements below grade "G-7": Grade: "G-9", Condition A, thickness 1/32 to 1 incl.: "60"; over 1 to 2 incl.: "-"; Condition D-48/50, 1/32 to 1 incl.: "40"; Over 1 to 2 incl.: "-"; Arc resistance: "180".

PAGE 19

Table XXIII. Add the following new grade and requirements below grade "G-7": Grade "G-9", 0.010: "4.00", 1/64: "3.00", 0.025: "-"; 1/32: "2.10", 3/64: "-"; 1/16: "0.80", 0.084: "-"; 3/32: "0.75", 1/8: "0.70", 3/16: "0.65", 1/4: "0.50", 1/2: "0.40", 3/4: "0.35" 1 and over: "0.30".

PAGE 20

Table XXIV for the requirements of grade "XXI" of "225", "250" and "250" 1 listed under the "dielectric strength" column, add "3/" next to each number. Below the table, add the following after footnote "2": "3/ After condition D-48/50 (see 4.3.1)".

PAGE 30

Paragraph 5. After "PREPARATION FOR DELIVERY", delete remainder of preamble entirely.

Paragraph 5.1.2. Delete "in accordance with industries' practice" and substitute "to afford adequate protection against physical damage during shipment from the first supply source to the first receiving activity. The supplier may use his standard practice when it meets this requirement."

Paragraph 5.2.1, line 8, delete "double faced, corrugated liner and top and bottom pads having a minimum bursting strength of 275 pounds per square inch (p.s.i.) conforming to PFF-B-636" and substitute: "liner and top and bottom pad conforming to type CF, class weather-resistant, grade 1C of PFF-F-320".

Paragraph 5.2.2, line 8, delete "double faced corrugated liner and top and bottom pads having a minimum bursting strength of 275 p.s.i. conforming to PFF-B-636" and substitute: "liner and top and bottom pads conforming to type CF, class domestic, variety 3K, grade 275 of PFF-F-320".

L-2-509a

CUSTODIANS:

Army - GL
Air Force - 69

Review activities:

Army - GL, EL, MR, MU
Air Force - 69

User activities:

Navy - AS, MC, CS, SH

Preparing activities:

Army - GL

Civil Agencies Interested:

ACR
COM
CSA
HEW
INT
JUS
VA

